

GENERATING SET GE 45 RSC

The images are for reference



POWER RATINGS				
* Stand-By three-phase power	43 kVA (34,4 kW) / 400V / 62,1A			
* PRP three-phase power	39 kVA (31,2 kW) / 400V / 56,3A			
* COP three-phase power	/			
Frequency	50 Hz			
Cos φ	0.8			

* Output powers according to ISO 8528-1

FEATURES

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- Rounded edges to allow rainwater to flow
- Sealed base capable of containing any leaks of liquids present in the engine, avoiding environmental pollution
- External plugs for draining oil and water
- Fully opening engine side bonnet which facilitates all maintenance operations
- Central lifting hook
- Movement with forklifts is possible from all sides
- Swinging rain cover at the exhaust gas outlet
- Brushless alternator with electronic voltage regulation "AVR" three-phase sensing with marine impregnation
- Control panel with digital control unit
- Fuel level, water temperature and oil pressure sensors
- Battery disconnect switch
- Insulation monitor (as an alternative to the electronic differential relay, only with the electrical distribution panel)
- Electronic voltage regulation AVR
- Complies with regulation 2016/1628/EU FOR STATIONARY USE ONLY



DEFINITION

Valid declared powers up to the followings environmental conditions: temperature $25^\circ\mathrm{C},$ altitude 100 meters above sea level

LTP power: stand-by power: Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

PRP power: continue power with variable loads. Maximum power for use with variable loads for a yearly illimited nubers of hours.

COP power: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

	EXHAUST SYSTEM	
	Maximum exhaust gas flow	/
	Max. exhaust gas temp.	/
	Maximum back pressure	10 kPa (0,1 bar)
	External diameter exhaust pipe	/
	ELECTRICAL SYSTEM	12 Vdc
	Starter motor power	2,3 kW
	Battery charging alternator cap.	60 A
	Cold start	- 10 °C
	With cold start aid	- 30 °C
	AIR FILTER	Dry
	Combustion air flow	/
	HEAT REJECTED AT FULL LOAD	
	To exhaust system	/
	To water and oil	/
-	Radiated to room	1
	To charge cooler	/

* Output powers according to ISO 3046-1

ENGINE 1500 RPM

4 STROKE, DIRECT INJECTION, TURBOCHARGED				
Model	RAYWIN 4D24TG0/A			
* Stand-By net power	39,6 kW (53,9 hp)			
* PRP net power	36 kW (49 hp)			
* COP net power	/			
Cylinders / Displacement	4 / 2,45 lit. (2450 cm ³)			
Bore / Stroke	87 / 103 (mm)			
Compression ratio	17,8 : 1			
BMEP (Brake Mean Effective Pressure : LTP - PRP)	1			
Speed governor type	Mechanical			
FUEL CONSUMPTION				
110 % (Stand-by power)	10,6 lit./h			
100 % to PRP	9,6 lit./h			
75 % to PRP	7,3 lit./h			
50 % to PRP	4,8 lit./h			
COOLING SYSTEM				
Total system cap only engine	/			
Fan air flow	/			
LUBRICATION SYSTEM				
Total oil system capacity	/			
Oil capacity in sump	9,5 lit. (max)			
Oil consumption at full load	/			



ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS				
Continuos power	40 kVA			
Stand-by power	44 kVA			
Three phase voltage	380-415 Vac			
Frequency	50 Hz			
Cos φ	0.8			
Model A.V.R.	625D - (3ph. sensing)			
Voltage regulation acc.	± 0,5 %			
Sustained short circuit current	3 ln			
Transient dip (100% load)	10 %			
Recovery time	\leq 3 sec.			
Efficiency at 100% load	87,1 % (400V - Cos φ 0,8)			
Insulation	Class H			
Connection - Terminals	Star - N°12			
Electromagnetic compatibility (R.F.I. suppr.)	EN IEC 61000-6-2 EN IEC 61000-6-4			
Waveform distorsion - THD	< 3 %			
Thelephone interference - THF	< 2 %			

REACTANCES (40 kVA - 400V)	
Direct axis synchronuos - Xd	/
Direct axis transient - X'd	/
Subdirect axis transient - X"d	/
Quadrature axis synchronuos - Xq	/
Quadr. axis subtransient - X"q	/
Negative sequence - X2	/
Zero sequence - X0	/
TIME CONSTANTS	
Transient - T'd	/
Subtransient - T"d	/
Open circuit - T'do	/
Armature - Ta	/
Short-circuit ratio Kcc	/
Cooling air flow	0,131 m ³ /sec.
Coupling Bearing	Direct SAE 3 -11.5 1/2 - N°1

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GENERAL SPECIFICATIONS

Fuel tank capacity	100 lt.	IP prote
Running time (75% to PRP)	13,7 h	Pressur
Starter battery	12 Vdc -80Ah / 670A CCA(EN)	Perform

IP protection degree	IP 23
Pressure acoustic	75 dB(A) @ 7m
Performance class (ISO 8528)	G2







INTELINANO PLUS CONTROLLER CHARACTERISTICS

• Graphic back-light LCD display 128x64 pixels

• MAN.- AUTO

• Engine operation

Operating mode

Display LEDs

MANUAL CONTROL PANEL

- InteliNano Plus controller
- Power switch
- Siren

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- Battery charge alarm light
- Emergency stop button
- TCM 35 remote control connector
- Switch magnetermic
- Differential switch
- Power terminal block (without sockets)
- Earth terminal (PE)

MANUAL CONTROL PANEL WITH SOCKETS

- Output sockets: 1x 400V 63A 3P+N+T CEE
 - 1x 400V 32A 3P+N+T CEE
 - 1x 400V 16A 3P+N+T CEE
 - 1x 230V 16A 2P+T CEE
 - 1x 230V 16A 2P+E SCHUKO
- Magnetothermic switch for 400V 32A socket
- Magnetothermic switch for 400V 16A socket
- Magnetothermic switch for 230V 16A sockets
- Earth terminal (PE)

	LLDJ	AUTO operating mode Alarm			
	Buttons	 START button STOP button AUTO button N° 2 buttons for controller programming 			
	Generator Measures	 Voltage : L1-L2/L2-L3/L3-L1/N-L1/N-L2/N-L3 Voltage : L1-L2 (Automatic control panel only) Current : I1 Powers : kVA Frequency 			
	Engine Measures	 Water temperature (optional) Oil pressure (optional) Fuel level Rpm meter Battery voltage Maintance Hours meter 			
	Generator Protections	 Short circuit Over-Udervoltage Over-Uderfrequency Phase sequence (Automatic control panel only) 			
	Engine Protections	 Overspeed High water temperature alarm High water temperature warning Low oil pressure warning Low fuel level warning Under battery voltage Battery voltage alternator failure Start failure Stop failure Emergency stop 			
	AMF functions (Auto- matic control panel only)	 Measure mains voltage : L1-L2 / L2-L3 / L3-L1 - N-L1 / N-L2 / N-L3 Measure mains frequency Three phase detection Over-Under mains voltage Over-Under mains frequency Phase sequence 			
	Features	 Event log and alarms (10 events) Operator interface with icons, no text Remote Start and Stop Pre-heating Fully programmable from the panel or from PC Direct connection to engines with ECU via Can bus J1939 Manual operation (MRS) with remote start IP65 protection Operation temperature: -20°C / +70°C 			
	Communication	Setup USB portCAN BUS interface (J1939 only)			





WEIGHT - DIMENSIONS AND ACCESSORIES

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Kg

Generating set pictured may include optional accessories.

DIMENSIONS DRAW

• 865 Kg

DRY WEIGHT MACHINE:





Versions in addition to the STANDARD features

	SAFETY	HEATER	OIL & GAS	ТОР	ISOMETER	REMOTE	PLUS	
GFI Electronic	\checkmark		√	√				
Engine water heater				√				
Low level water sensor			\checkmark	\checkmark				
Radio control								
Cold start aid			√			\checkmark	\checkmark	
Isometer					\checkmark			
OPTIONS ON REQUEST SVERSIONS AVAILABLE								
Automatic transfer switch unit (ATS) PAC-I 42 (60A)			CC	N5U8052	STANDARD (MANUAL WITHOUT SOCKETS)			
Remote control TCM35 Site tow CTL30		CC	CCN5U8052A HEATER (MANUAL WITHOUT SOCKETS)					
		CC	N5U8052R	SAFETY (MANUAL WITHOUT SOCKETS)				
Koad trailer CTV1 Forthing Lit MT05			CN	5U8052DER	OIL & GAS (MANUAL	WITHOUT SOCKETS	5)	
• Earthing Kit WIT25			CC	N5U8012	STANDARD (MANUAL	WITH SOCKETS)		
			CC	N5U8012R	SAFETY (MANUAL WI	TH SOCKETS)		
			CC	N5U8012DR	PLUS (MANUAL WITH	SOCKETS)		
			CC	N5U8012ET	ISOMETER (MANUAL	WITH SOCKETS)		
			CC	N5U8012AER	TOP (MANUAL WITH S	SOCKETS)		
			CC	N5U8012DRW	REMOTE (MANUAL W	ITH SOCKETS)		

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS 2006/42 / EC (Machines Directive) 2014/35 / EU (Low Voltage Directive) 2014/30 / EU (EMC Directive) 2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)

ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2008 - Cert. 0192

WARRANTY

All devices are covered by the manufacturer's warranty.

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